EAST ROSEBUD FISHING ACCESS SITE ACCESSIBLE FISHING PLATFORM

FORSYTH, ROSEBUD COUNTY, MONTANA

FWP #7173723

sdi architects

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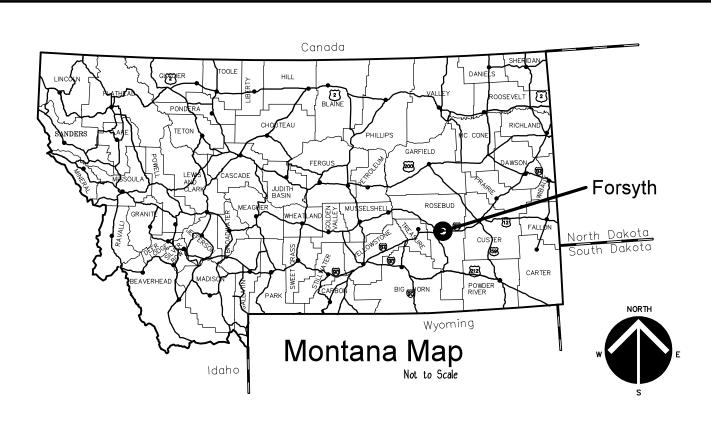
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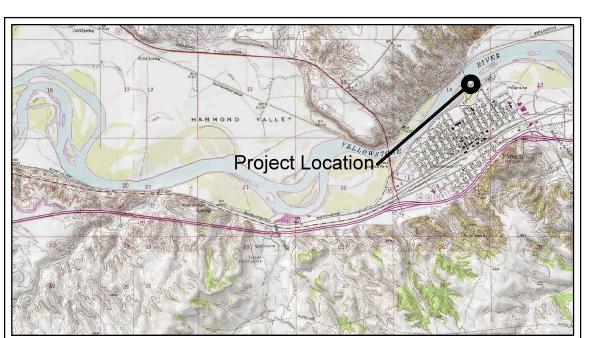
County,

design

Rosebud near Forsyth

1 of 1





Local Map

MONTANA FISH, WILDLIFE & PARKS

MAILING ADDRESS: PO BOX 200701

PHYSICAL ADDRESS: 1522 9TH AVENUE

HELENA, MT 59620-0701 TEL: 406.841.4000

FAX: 406.841.4004

fwp.mt.gov/Doing Business/Design&Construction

DRAWING INDEX:

G1.0 - COVER SHEET

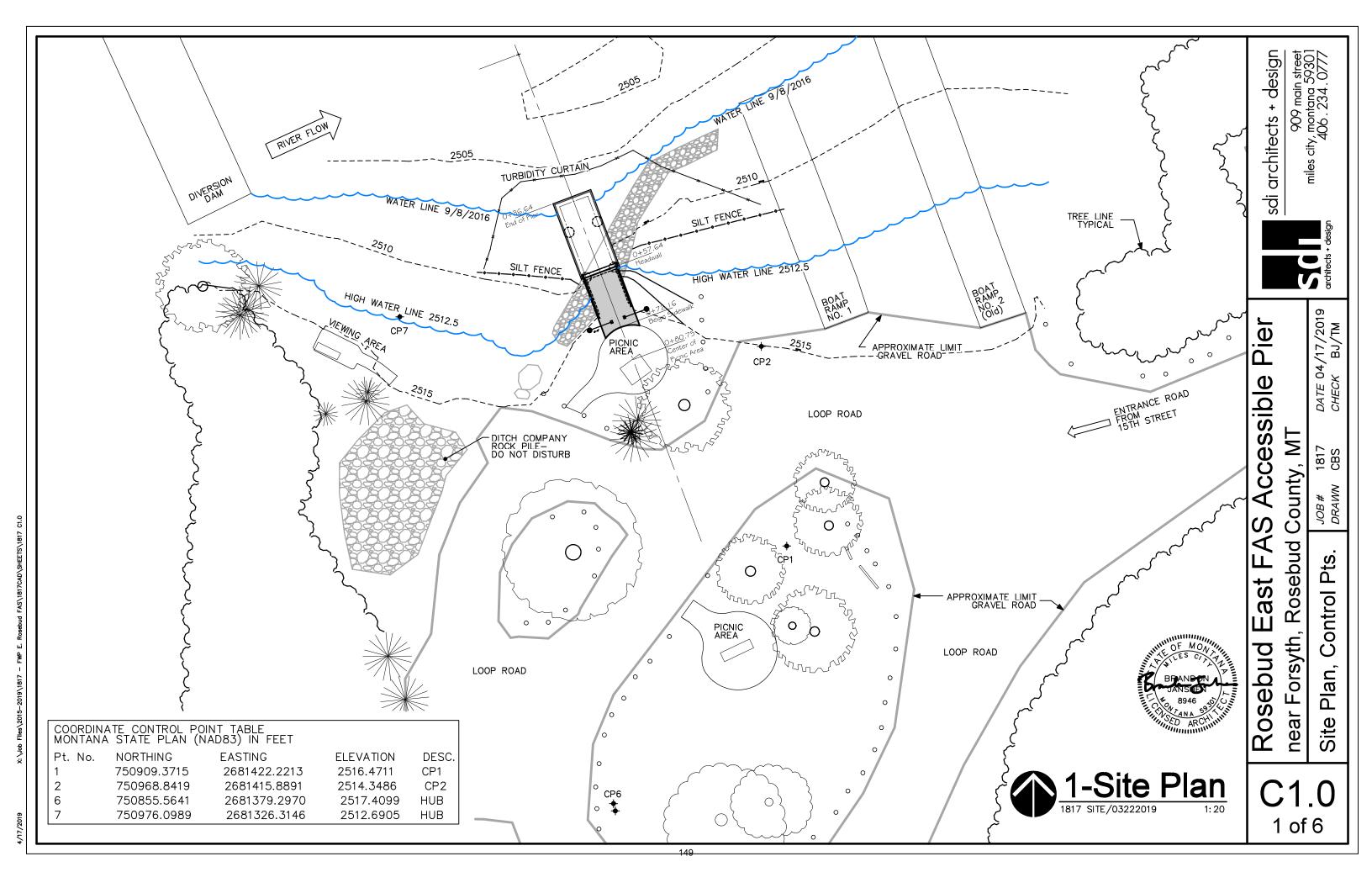
S1 - Notes and Specs S2 - Pier Plans

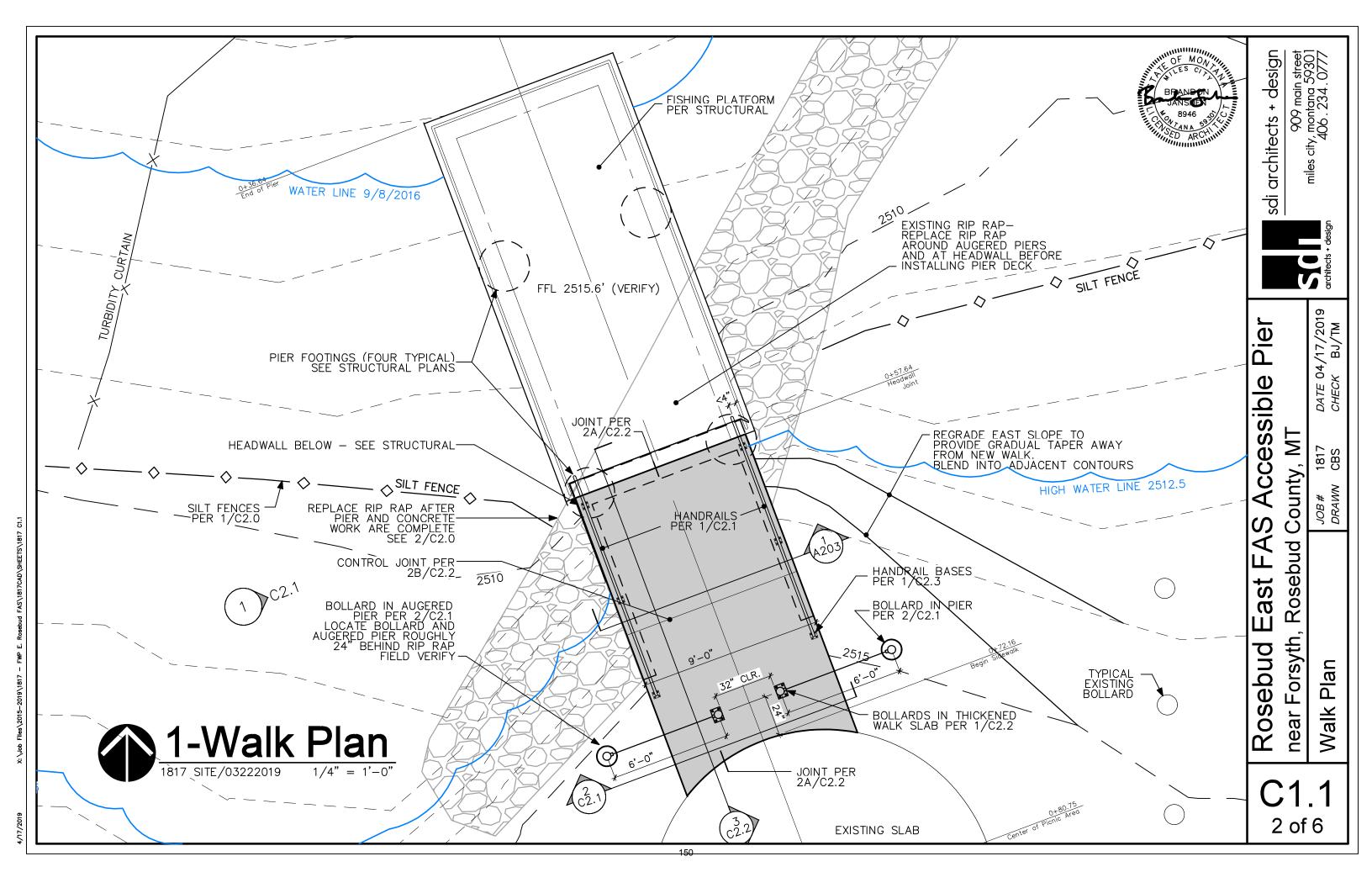
C1.0 - SITE PLAN C1.1 - WALK PLAN

C2.0 - SITE DETAILS C2.1 - SITE DETAILS

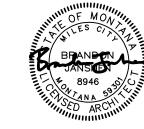
C2.2 - SITE DETAILS C2.3 - SITE DETAILS

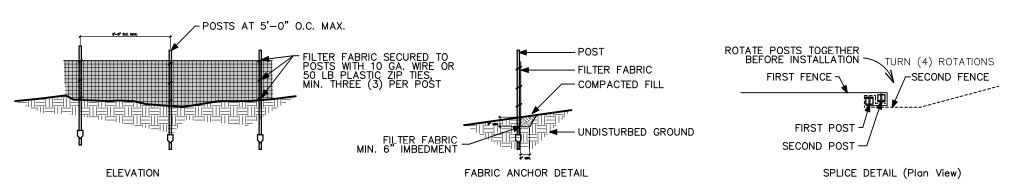












SILT FENCE NOTES:

- 1. TEMPORARY SILT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE PLATFORM AREA. FENCE SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.
- 2. FILTER FABRIC SHLL MEET THE REQUIREMENTS OF MPWS SPECIFICATION 02110 GEOTEXTILES.
- 3. FENCE POSTS SHALL BE EITHER WOOD POST WITH A MINIMUM CROSS-SECTIONAL AREA OF 1.5" X 1.5" OR A STANDARD STEEL T POST.
- 4. WHEN SPLICES ARE NECESSARY MAKE SPLICE AT POST ACCORDING TO SPLCE DETAIL. PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE. ROTATE BOTH POSTS TOGETHER AT LEAST 180 DEGREES TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL. CUT THE FABRIC NEAR THE BOTTOM OF THE POSTS TO ACCOMMODATE THE 6 INC FLAP. THEN DRIVE BOTH POSTS AND BURY THE FLAP. COMPACT BACKFILL WELL.

1-Silt Fence

1817 SITE DETAILS/03252019 NOT TO SCALE



RIP RAP SECTION NOTES:

- 1. CONTRACTOR TO PROVIDE 10 C.Y. OF NEW MATERIAL TO SUPPLEMENT SALVAGED MATERIAL.
- 2. RIP RAP MATERIALS: PROVIDE IN ACCORDANCE WITH STATE OF MONTANA TRANSPORTATION STANDARDS FOR CLASS II RIP-RAP. 2 FT. DIAMETER ALLOWING 40% SMALLER BY WEIGHT.
- 3. PROVIDE STONE THAT IS HARD, DURABLE AND ANGULAR IN SHAPE, RESISTANT TO WATER ACTION AND WEATHERING, FREE FROM OVERBURDEN, SPOIL, SHALE, STRUCTURAL DEFECTS AND ORGANIC MATERIAL.
- 4. EACH STONE MUST HAVE ITS GREATEST DIMENSION NOT GREATER THAN THREE TIMES ITS
- 5. DO NOT USE ROUNDED STONE OR BOULDERS FROM A STREAMBED SOURCE AS RIP-RAP. DO NOT USE SHALE OR STONES WITH SHALE SEAMS.
- 6. ANGULAR FACES OF STONES SHALL INTER-LOCK TO PROVIDE STABLE SURFACE.
- 7. PLACE RIP-RAP ALONG EDGES OF CONCRETE BOAT RAMP WHERE SHOWN.
- 8. INSTALLED THICKNESS: 2 FT AVERAGE & 4 FT AT TOE.
- 9. FILL VOIDS WITH TOP SOIL STORED FROM SITE EXCAVATION, OR CLEAN WEED FREE IMPORTED TOPSOIL.

Pier Accessible ≥ County osebud St $\boldsymbol{\omega}$ Δ near Forsyth epnq S 0

architects + design

Sdi

909 main stre , montana 593 406 . 234 . 077

s city, montana 5 406 . 234 .

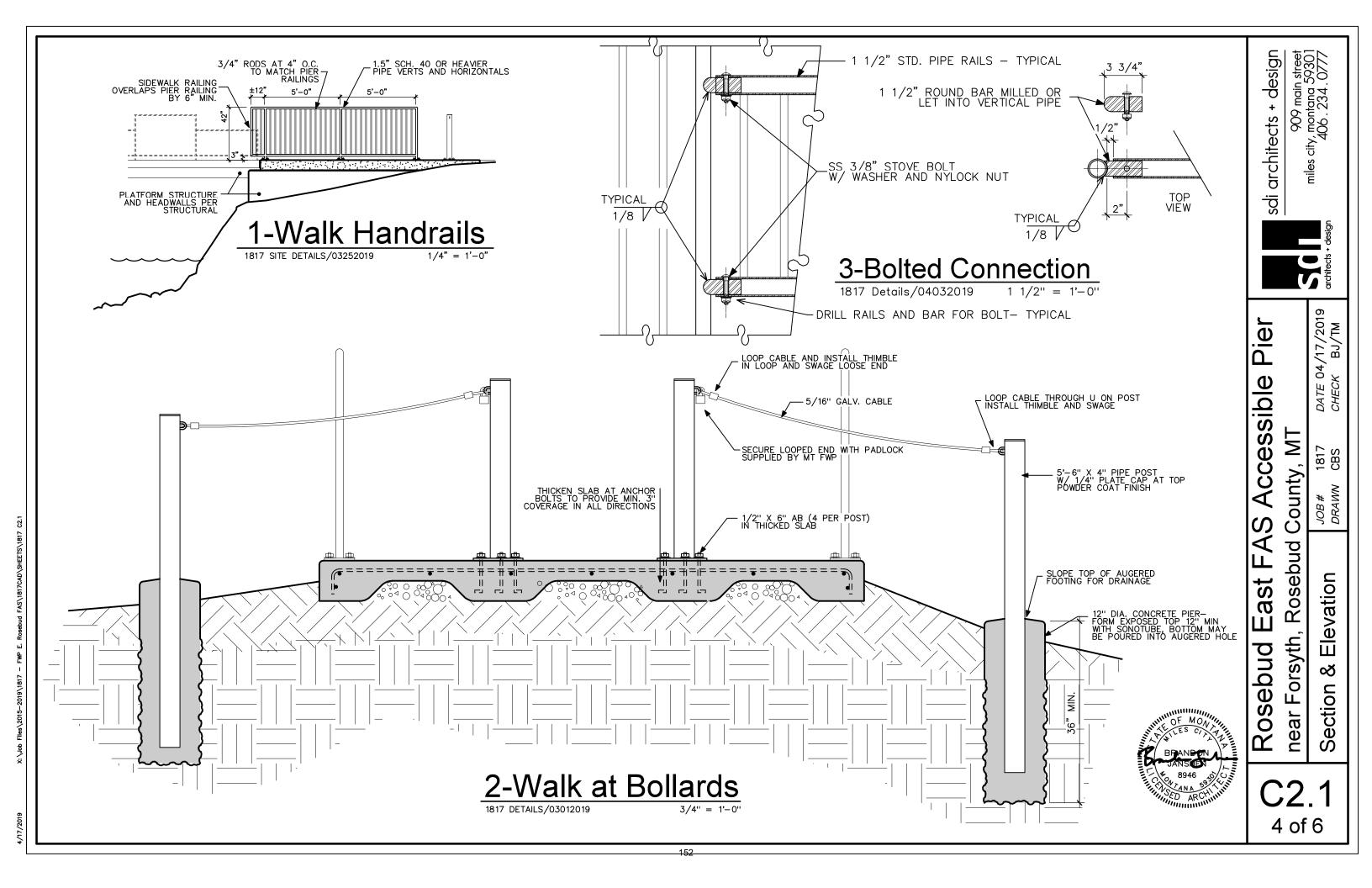
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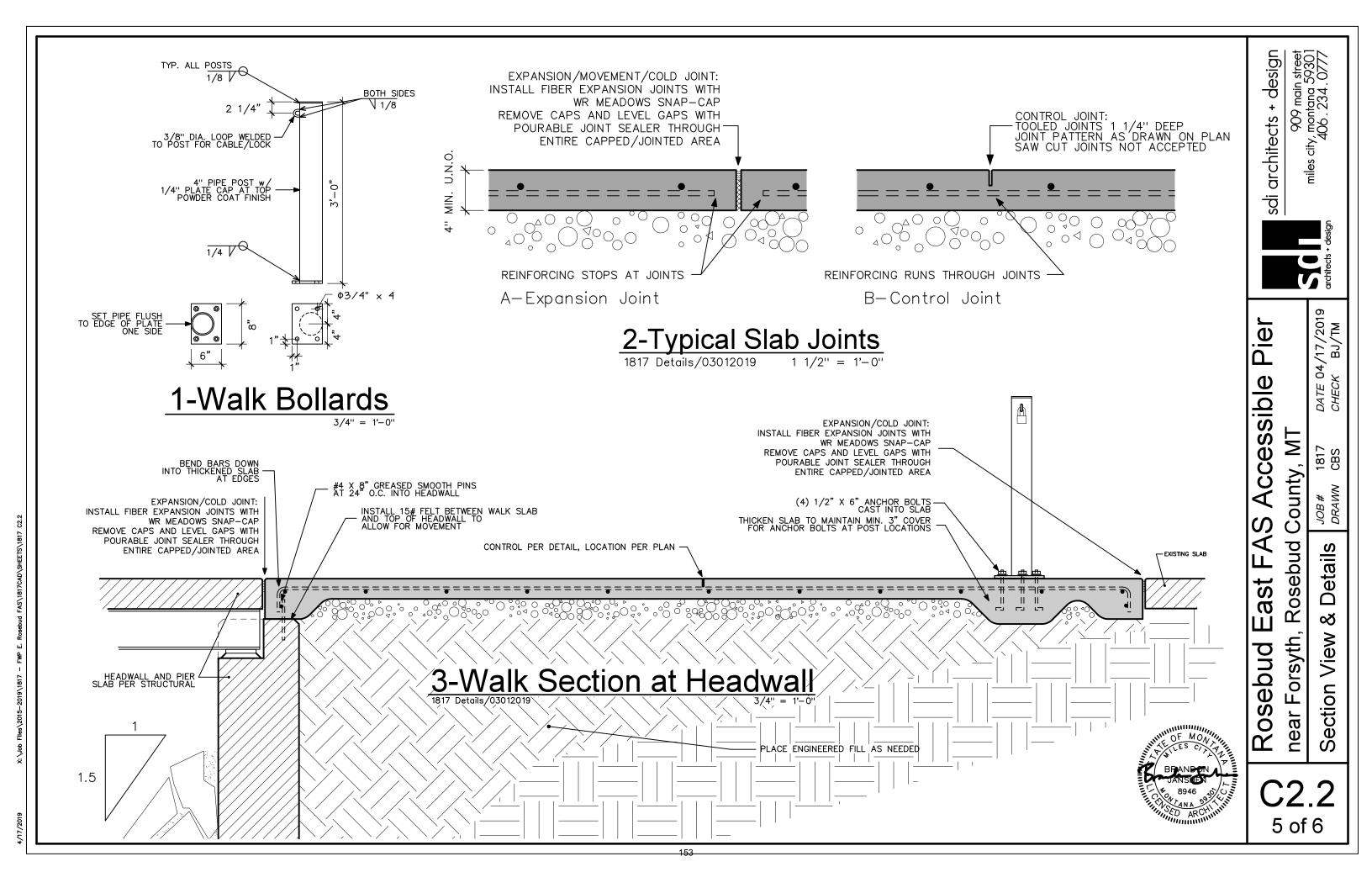
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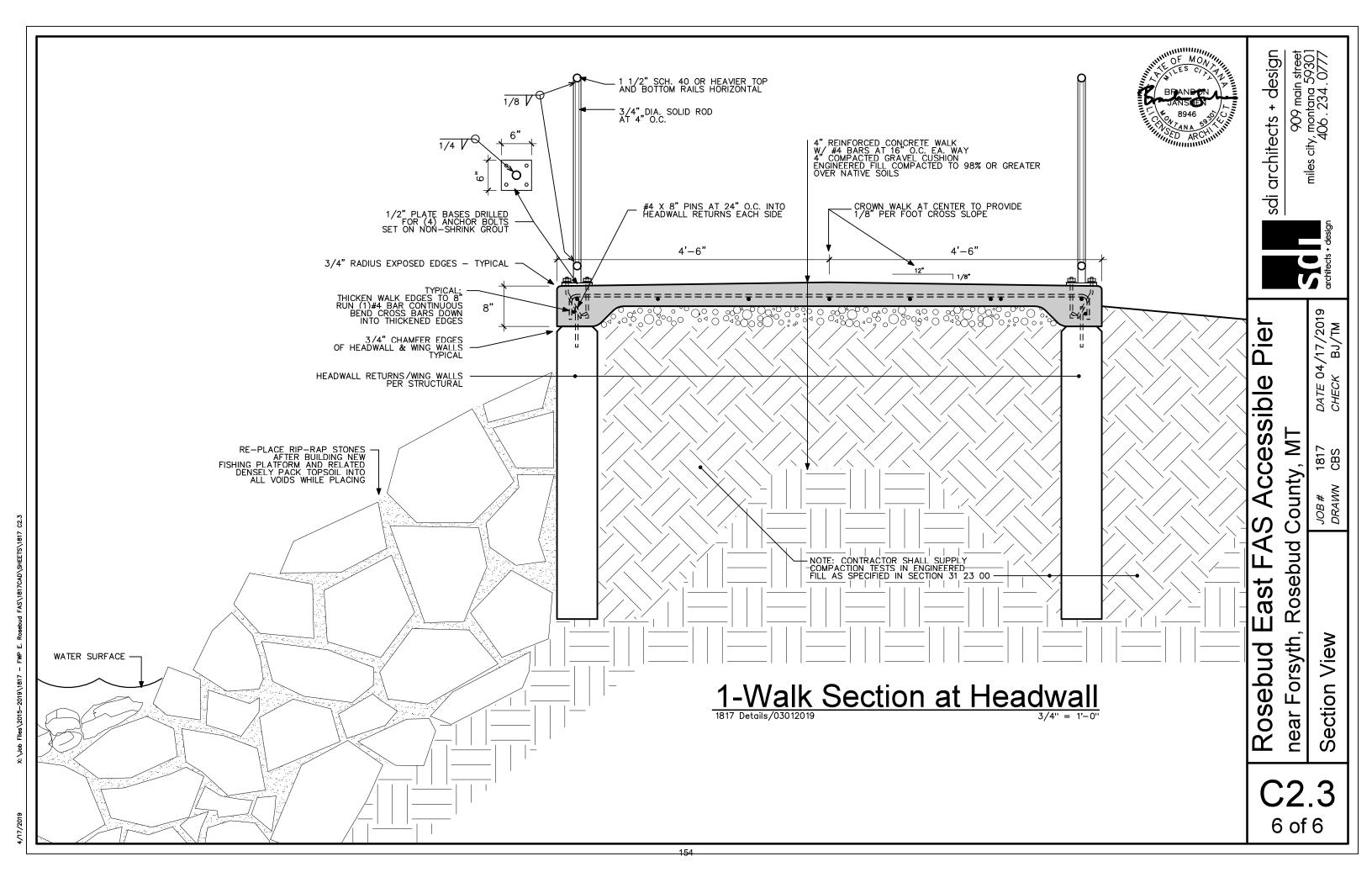
1817 CBS

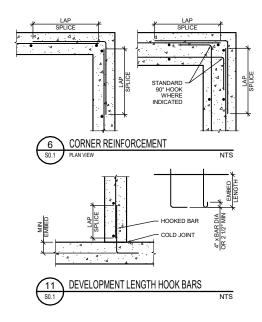
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DEVELOPMENT LENGTH HOOK BARS		
BAR SIZE	EMBEDMENT LENGTH	
#3	6"	
#4	8"	
#5	10"	
#6	12"	
NOTES:		
1.	TYPICAL HOOKED BAR DEVELOPMENT UNLESS NOTED OTHERWISE	

REINFORCEMENT DEVELOPMENT & LAP SPLICES DEVELOPMENT CLASS IS SPLICE

BAR SIZE	LEIN	GIR	LENGIH		
BAR SIZE	OTHER	TOP	OTHER	TOP	
#3	1'-5"	10"	10"	2'-5"	
#4	1'-10"	2'-5"	2'-5"	3'-1"	
#5	2'-3"	3'-0"	3'-0"	3'-10"	
#6	2'-9"	3'-7"	3'-7"	4'-8"	
NOTES:					
1.	TYPICAL HOOKED BAR DEVELOPMENT UNLESS NOTED OTHERWISE.				
2.	TOP BARS ARE DEFINED AS HORIZONTAL				

MATERIALS AND STRENGTHS

DRAWN BY:

CHECKED BY: DATE:

DATE:

ASTM DESIGNATION
A36, 36 KSI
A992, 50 KSI
A36, 36 KSI
A53 Gr. B, 35 KSI
F3125 (A325 BOLT, F436 WASHER, A563 NUT)
F1554 Gr. 36 (HEAVY HEX NUT A563, A36 PLATE WASHER, F844 WASHER)
A108, AWS D1.1-TYPE B $\frac{3\pi}{4}$ DIA UNO
E70xx FOR SHAPES AND PLATES; E60xx FOR DECK AND COLD-FORMED SHAPES

CONCRETE SCHEDULE	CRETE SCHEDULE: ASTM C150 TYPE I-II CEMENT				
	28-DAY COMPRESSIVE STRENGTH				
ITEM	4000 PSI W/C .50 MAX	4000 PSI W/C .45 MAX	4500 PSI W/C .42 MAX	REMARKS	
PIERS & FOUNDATION WALLS	•			5-7% ENTRAINED AIR	
ELEVATED SLAB			•	5-7% ENTRAINED AIR	
EXTERIOR SLAB ON GRADE		•		5-7% ENTRAINED AIR	
REINFORCING STEEL	ASTM A615 GRADE 60				

E	EARTHWORK CRITERIA			
GI	GEOTECHNICAL REPORT:			
RA	RAWHIDE ENGINEERING INC DATED: JULY 31, 2018			
ALLOWABLE BEARING PRESSURE 3000 PSF			0 PSF	
CONCRETE PIERS 30 KIP CAPACITY			KIP CAPACITY	
CC	COMPACTION REQUIREMENTS: ASTM D698 - MAXIMUM DRY DENSITY			
	BELOW FOUNDATION		98%	
Г	UNDER SLABS		98%	
	AROUND EXTERIOR FOUNDATION WALLS		98%	
NC	NOTE: ALL FILL TO BE PLACED IN 8" LIFTS UNO			
THIS PROJECT WILL REQUIRE A DEWATERING PLAN DURING CONSTRUCTION. THE DEWATERING PLAN SHOULD BE DESIGNED BY AN ENGINEER WITH EXPERIENCE DESIGNING DEWATERING SYSTEMS AND THEIR EFFECT ON ADJACENT STRUCTURES.				
2. REFER TO GEOTECHNICAL REPORT FOR FULL RECOMMENDATIONS				

STRUCTURAL NOTES

GOVERNING CODES

International Building Code IBC2012

CONCRETE CONSTRUCTION

Comply with ACI 318 and ACI 301 (latest adoption). Comply with ACI 315 Manual of Standard Practice.

Cover Requirements - Cast Against Earth - 3" (clear dimension) - Walls, slabs, columns - 1 1/2"

Corner Bars - Size & spacing to match horizontal bars

Use only steel or concrete supports where reinforcing weight is to be carried. Plastic supports are acceptable where weight of reinforcing is not carried. Dowels as specified to match vertical bar size and spacing UNO.

Secure reinforcing bars, AB and embedded items prior to placing concrete. Slab on Grade – Reinforce with FIBERMESH 150 polypropylene Fibers At the rate of 1.5 pounds per cubic yard

Underlain slab with a 4" layer of granular material

Slab control joints:

Joints to be 1/8" wide x $\frac{1}{4}$ the slab depth.

GC to submit a control joint plan for review, spacing 9'0 OC max. Dry pack grout under bearing and baseplates. 5000 psi non-shrink.

Chamfer exposed corners 3/4" UNO.

Submit concrete mix design for each mix.

Submit rebar shop drawings.

PRECAST CONCRETE OPTION

At contractor option, the elevated concrete platform may be constructed of Precast concrete in lieu of cast in place concrete.

The platform shall be 6 inch solid concrete, cast and set as one piece unless Otherwise appoved by engineer.

Design live load 100 PSF minimum.

Design shall bear the seal of a registered MT professional engineer. After precast concrete units have been placed and secured, grout open spaces at keyways, connections, and joints.

Precast manufacturer to furnish all precast connecting hardware as indicated Chamfer exposed beam and column corners 3/4" UNO

STEEL CONSTRUCTION

Detail and fabricate in accordance with AISC Manual of Steel Construction & Code of Standard Practice, latest editions.

All structural steel to be prime painted. Refer project specifications. All welds to be continuous 3/16" throat fillet weld UNO.

Burning of holes or cutting in the field is not permitted unless authorized by the structural engineer.

Submit steel shop drawings.

GENERAL NOTES

The contractor shall verify the existing conditions and notify the engineer of any conditions affecting the new construction.

Provide temporary support during construction as required, until structural elements are permanently attached. Drawings indicate structure in final form capable of supporting design loads.

ABBREVIATIONS

UNO - - - - - Unless Noted Otherwise

TW ----- Top of Wall

TF ----- Top of Footing

GC ----- General Contractor
A/E ---- Architect and Engineer of

ecord

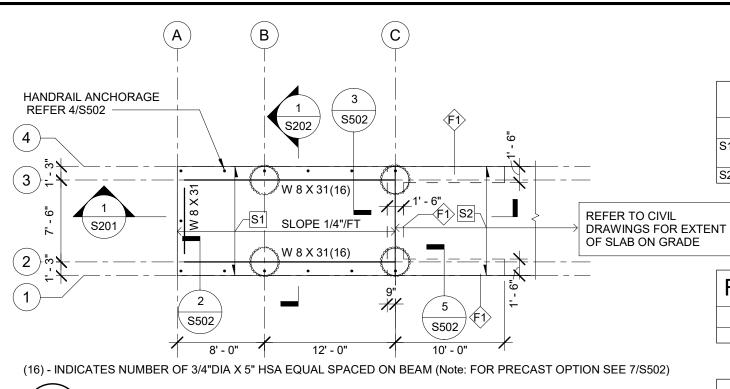
HSA - - - - - Headed Anchor Studs

AB ----- Anchor Bolts

W. MILES BORGES
8422PE

Montana Fish, Wildlife & Parks

DESIGN CRITERIA & NOTES
EAST ROSEBUD FISHING ACCESS SITE

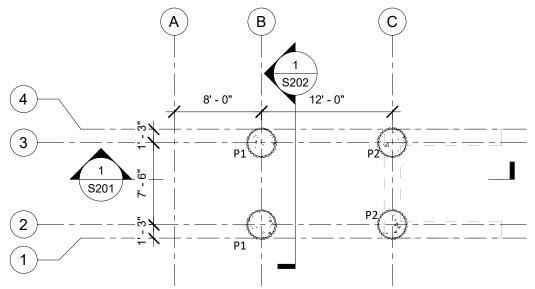


SLAB SCHEDULE		
MARK	DESCRIPTION	
S1	6" REINFORCED ELEVATED SLAB OR PRECAST CONCRETE PLANK REFER TO STRUCTURAL NOTES	
S2	REFER TO CIVIL DRAWINGS	

FOUNDATION WALL SCHEDULE

MARK	WALL CONSTRUCTION
F1	18" CONC SEE DETAIL FOR REINFORCING





POUNDATION LEVEL

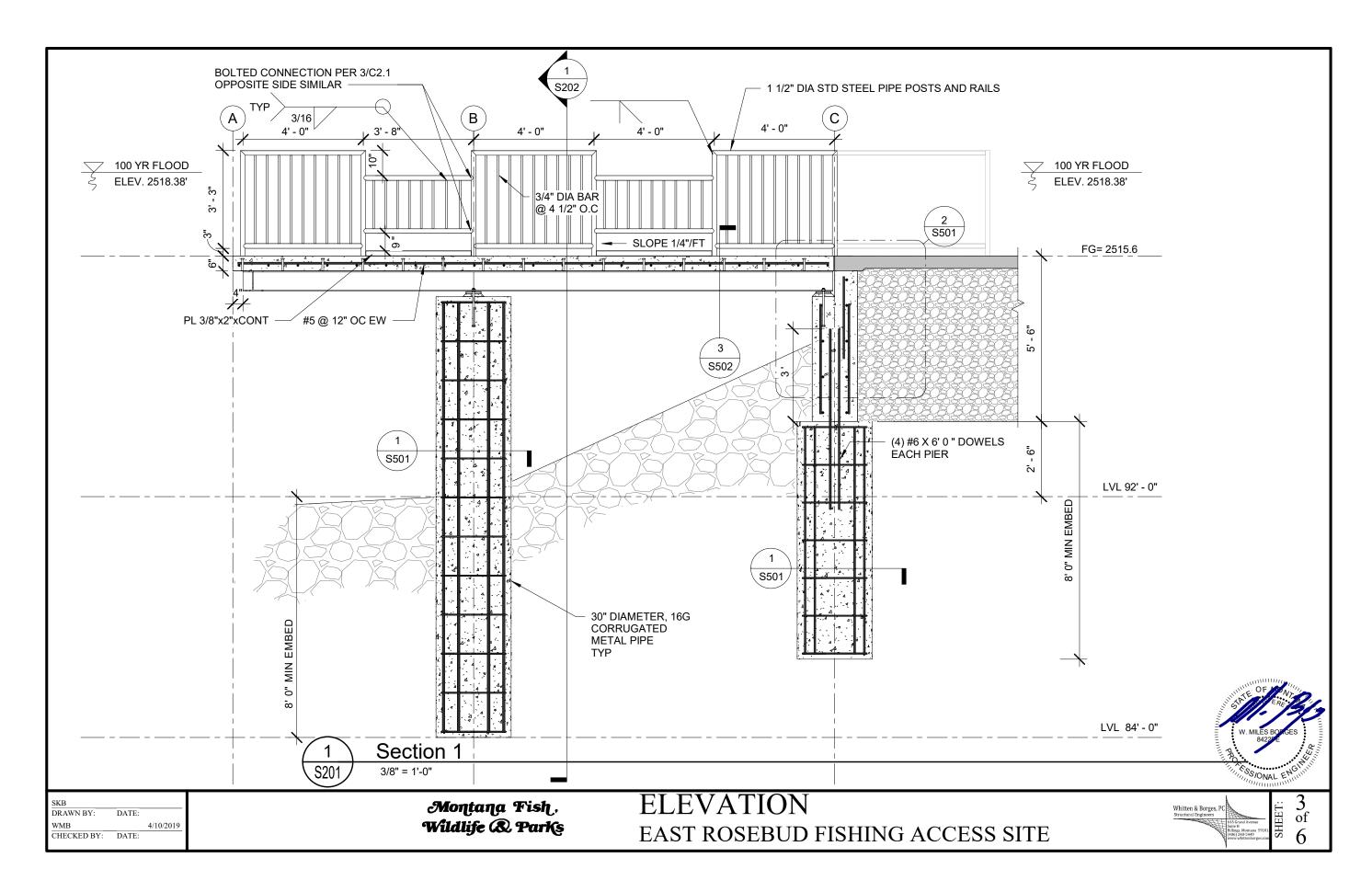
| S101 | 1/8" = 1'-0"

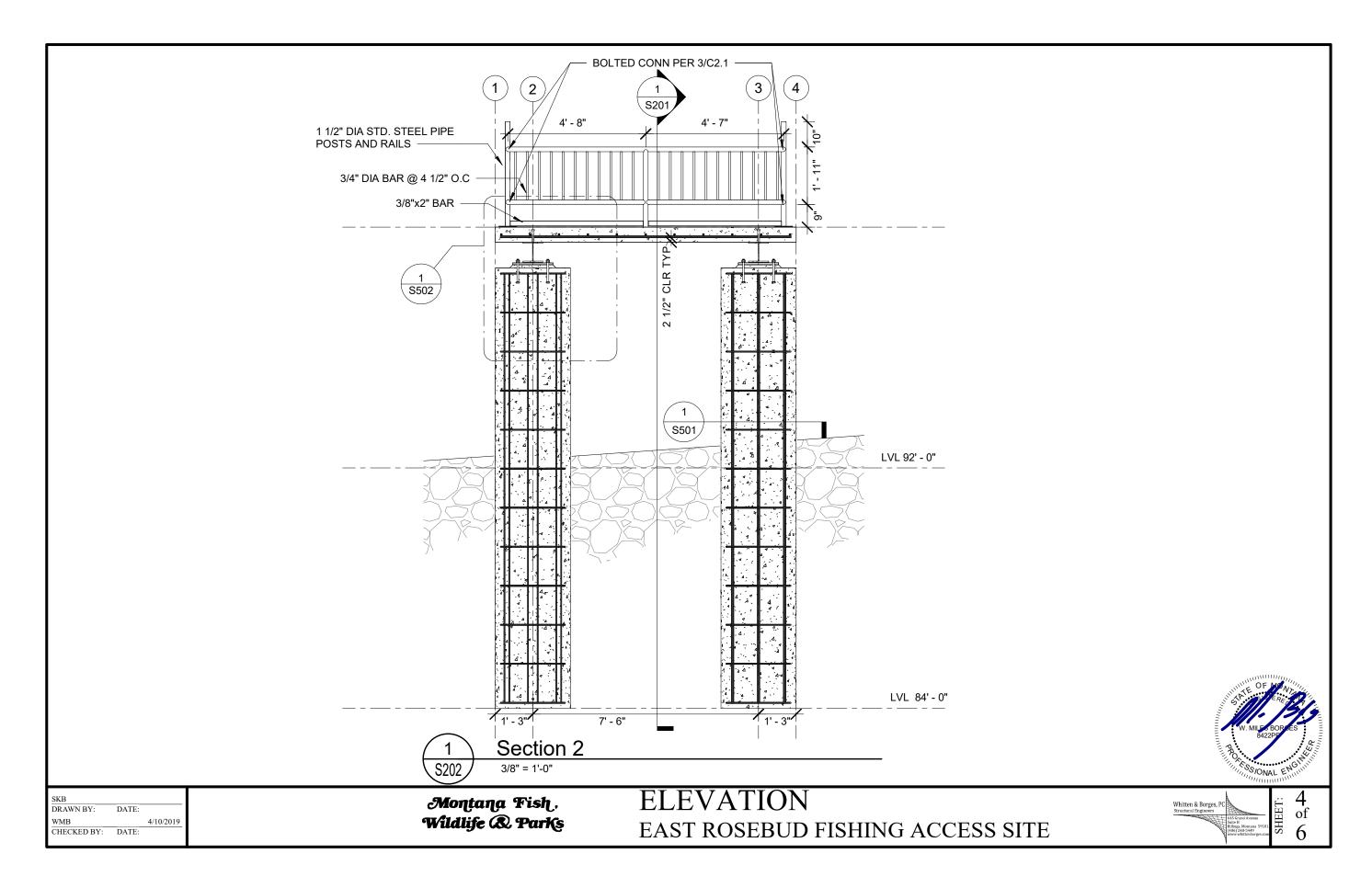
PIER SCHEDULE			
TYPE MARK	DIA	REINF	TIES
P1	2'-6"	(6) #6 VERT	#4 @ 16" OC
P2	2'-6"	(6) #6 VERT	#4 @ 16" OC

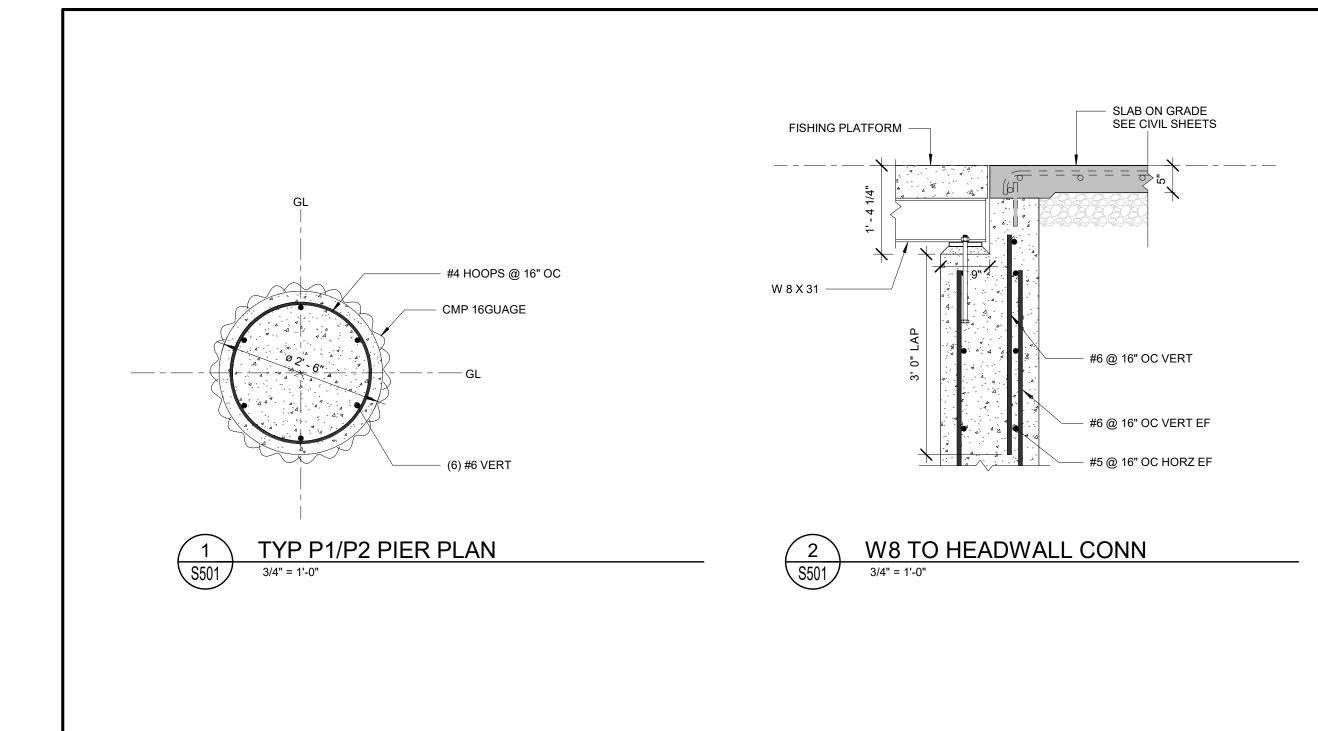


SKB				
DRAWN BY:	DATE:			
WMB		4/10/2019		
CHECKED BY:	DATE:			

Montana Fish , Wildlife & Parks PLAN VIEWS
EAST ROSEBUD FISHING ACCESS SITE









 SKB
 DATE:

 WMB
 4/10/2019

 CHECKED BY:
 DATE:

Montana Fish , Wildlife & Parks DETAILS
EAST ROSEBUD FISHING ACCESS SITE

